

LIQUID CRYSTAL OVER SEMICONDUCTOR
DISPLAY WITH ON-CHIP STORAGE

Abstract of the Disclosure

5 A display device, such as a projector system, may include a plurality of display panels formed from liquid crystal over semiconductor substrates which incorporate not only the pixel elements but memory as well. The presence of memory in the display allows a host system, such as a computer, to send only new picture information to the display and avoid the transmission of information that does not change. Thus, the display update bandwidth required of the host system may be reduced, allowing the host system to use resources typically required by the display update process for improved performance of other operations. In addition, the elimination of redundant information being transmitted to the display may allow more new information to be transmitted, enabling, for example, a higher resolution display.